## Javed Ali Khan

List of Publications by Year in descending order

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114 papers 8,479 citations

41344 49 h-index 89 g-index

114 all docs

114 docs citations

114 times ranked

6630 citing authors

#	Article	IF	CITATIONS
1	Wastewater treatment by means of advanced oxidation processes at basic pH conditions: A review. Chemical Engineering Journal, 2017, 320, 608-633.	12.7	838
2	Wastewater treatment by means of advanced oxidation processes based on cavitation – A review. Chemical Engineering Journal, 2018, 338, 599-627.	12.7	550
3	Kinetic and mechanism investigation on the photochemical degradation of atrazine with activated H2O2, S2O82â^ and HSO5â^. Chemical Engineering Journal, 2014, 252, 393-403.	12.7	432
4	Oxidative degradation of atrazine in aqueous solution by UV/H2O2/Fe2+, UV//Fe2+ and UV//Fe2+ processes: A comparative study. Chemical Engineering Journal, 2013, 218, 376-383.	12.7	282
5	Advanced oxidation processes (AOPs) based wastewater treatment - unexpected nitration side reactions - a serious environmental issue: A review. Chemical Engineering Journal, 2022, 430, 133002.	12.7	237
6	Emerging contaminants of high concern for the environment: Current trends and future research. Environmental Research, 2022, 207, 112609.	<b>7.</b> 5	226
7	Solar light driven degradation of norfloxacin using as-synthesized Bi3+ and Fe2+ co-doped ZnO with the addition of HSO5â^': Toxicities and degradation pathways investigation. Chemical Engineering Journal, 2018, 351, 841-855.	12.7	209
8	Efficient removal of endosulfan from aqueous solution by UV-C/peroxides: A comparative study. Journal of Hazardous Materials, 2013, 263, 584-592.	12.4	206
9	Kinetics and mechanism of sulfate radical- and hydroxyl radical-induced degradation of highly chlorinated pesticide lindane in UV/peroxymonosulfate system. Chemical Engineering Journal, 2017, 318, 135-142.	12.7	196
10	Oxidative removal of brilliant green by UV/S2O82â€', UV/HSO5â€' and UV/H2O2 processes in aqueous media: A comparative study. Journal of Hazardous Materials, 2018, 357, 506-514.	12.4	170
11	Hydroxyl and sulfate radical mediated degradation of ciprofloxacin using nano zerovalent manganese catalyzed S2O82â°. Chemical Engineering Journal, 2019, 356, 199-209.	12.7	158
12	Ultrasound-assisted heterogeneous activation of persulfate and peroxymonosulfate by asphaltenes for the degradation of BTEX in water. Journal of Hazardous Materials, 2020, 397, 122804.	12.4	154
13	Pilot scale degradation study of 16 selected volatile organic compounds by hydroxyl and sulfate radical based advanced oxidation processes. Journal of Cleaner Production, 2019, 208, 54-64.	9.3	150
14	Nano-zerovalent manganese/biochar composite for the adsorptive and oxidative removal of Congo-red dye from aqueous solutions. Journal of Hazardous Materials, 2021, 403, 123854.	12.4	144
15	Solar Light Responsive Poly(vinyl alcohol)-Assisted Hydrothermal Synthesis of Immobilized TiO <sub>2</sub> /Ti Film with the Addition of Peroxymonosulfate for Photocatalytic Degradation of Ciprofloxacin in Aqueous Media: A Mechanistic Approach. Journal of Physical Chemistry C, 2018, 122, 406-421.	3.1	138
16	Integrated photocatalytic advanced oxidation system (TiO2/UV/O3/H2O2) for degradation of volatile organic compounds. Separation and Purification Technology, 2019, 224, 1-14.	7.9	137
17	Tuning tetracycline removal from aqueous solution onto activated 2:1 layered clay mineral: Characterization, sorption and mechanistic studies. Journal of Hazardous Materials, 2020, 384, 121320.	12.4	126
18	Celluloseâ€based Materials for the Removal of Heavy Metals from Wastewater – An Overview. ChemBioEng Reviews, 2017, 4, 240-256.	4.4	125

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19	A comparative study of magnetic chitosan (Chi@Fe3O4) and graphene oxide modified magnetic chitosan (Chi@Fe3O4GO) nanocomposites for efficient removal of Cr(VI) from water. International Journal of Biological Macromolecules, 2019, 137, 948-959.	<b>7.</b> 5	120
20	Synergistic effect of TiO2 photocatalytic advanced oxidation processes in the treatment of refinery effluents. Chemical Engineering Journal, 2020, 391, 123488.	12.7	117
21	Synthesis, characterization and application of novel MnO and CuO impregnated biochar composites to sequester arsenic (As) from water: Modeling, thermodynamics and reusability. Journal of Hazardous Materials, 2021, 401, 123338.	12.4	112
22	Arsenic speciation and biotransformation pathways in the aquatic ecosystem: The significance of algae. Journal of Hazardous Materials, 2021, 403, 124027.	12.4	111
23	Synergistic effects of activated carbon and nano-zerovalent copper on the performance of hydroxyapatite-alginate beads for the removal of As3+ from aqueous solution. Journal of Cleaner Production, 2019, 235, 875-886.	9.3	108
24	Synthesis of eosin modified TiO2 film with co-exposed {001} and {101} facets for photocatalytic degradation of para-aminobenzoic acid and solar H2 production. Applied Catalysis B: Environmental, 2020, 265, 118557.	20.2	106
25	Degradation of quinolone antibiotic, norfloxacin, in aqueous solution using gamma-ray irradiation. Environmental Science and Pollution Research, 2016, 23, 13155-13168.	5.3	102
26	Arsenic biogeochemical cycling in paddy soil-rice system: Interaction with various factors, amendments and mineral nutrients. Science of the Total Environment, 2021, 773, 145040.	8.0	100
27	Degradation kinetics and mechanism of desethyl-atrazine and desisopropyl-atrazine in water with OH and SO4â° based-AOPs. Chemical Engineering Journal, 2017, 325, 485-494.	12.7	98
28	Effect of biochar modified with magnetite nanoparticles and HNO3 for efficient removal of Cr(VI) from contaminated water: A batch and column scale study. Environmental Pollution, 2020, 261, 114231.	7.5	95
29	Silicate glass matrix@Cu2O/Cu2V2O7 p-n heterojunction for enhanced visible light photo-degradation of sulfamethoxazole: High charge separation and interfacial transfer. Journal of Hazardous Materials, 2021, 402, 123790.	12.4	95
30	Chitosan/Ag-hydroxyapatite nanocomposite beads as a potential adsorbent for the efficient removal of toxic aquatic pollutants. International Journal of Biological Macromolecules, 2018, 120, 1752-1759.	7.5	94
31	Efficient Photocatalytic Degradation of Norfloxacin in Aqueous Media by Hydrothermally Synthesized Immobilized TiO <sub>2</sub> /Ti Films with Exposed {001} Facets. Journal of Physical Chemistry A, 2016, 120, 9916-9931.	2.5	90
32	Carbamazepine degradation by UV and UV-assisted AOPs: Kinetics, mechanism and toxicity investigations. Chemical Engineering Research and Design, 2018, 117, 307-314.	5.6	90
33	Development of new organic-inorganic, hybrid bionanocomposite from cellulose and clay for enhanced removal of Drimarine Yellow HF-3GL dye. International Journal of Biological Macromolecules, 2020, 149, 1059-1071.	7.5	84
34	Role of aqueous electron and hydroxyl radical in the removal of endosulfan from aqueous solution using gamma irradiation. Journal of Hazardous Materials, 2014, 278, 40-48.	12.4	83
35	Vibrational spectroscopy of selective dental restorative materials. Applied Spectroscopy Reviews, 2017, 52, 507-540.	6.7	83
36	Synergistic effects of H2O2 and S2O82â^' in the gamma radiation induced degradation of congo-red dye: Kinetics and toxicities evaluation. Separation and Purification Technology, 2020, 233, 115966.	7.9	82

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37	Engineered nanoparticles for removal of pollutants from wastewater: Current status and future prospects of nanotechnology for remediation strategies. Journal of Environmental Chemical Engineering, 2021, 9, 106160.	6.7	74
38	Deep eutectic solvent-mediated synthesis of ceria nanoparticles with the enhanced yield for photocatalytic degradation of flumequine under UV-C. Journal of Water Process Engineering, 2020, 33, 101012.	5.6	67
39	Zinc in soil-plant-human system: A data-analysis review. Science of the Total Environment, 2022, 808, 152024.	8.0	67
40	Synthesis of nitrogen-doped Ceria nanoparticles in deep eutectic solvent for the degradation of sulfamethaxazole under solar irradiation and additional antibacterial activities. Chemical Engineering Journal, 2020, 394, 124869.	12.7	65
41	Nano zerovalent zinc catalyzed peroxymonosulfate based advanced oxidation technologies for treatment of chlorpyrifos in aqueous solution: A semi-pilot scale study. Journal of Cleaner Production, 2020, 246, 119032.	9.3	62
42	Solar light responsive bismuth doped titania with Ti3+ for efficient photocatalytic degradation of flumequine: Synergistic role of peroxymonosulfate. Chemical Engineering Journal, 2020, 384, 123255.	12.7	62
43	Preparation of magnetic chitosan corn straw biochar and its application in adsorption of amaranth dye in aqueous solution. International Journal of Biological Macromolecules, 2022, 199, 234-242.	7.5	61
44	Decomposition of atrazine by ionizing radiation: Kinetics, degradation pathways and influence of radical scavengers. Separation and Purification Technology, 2015, 156, 140-147.	7.9	59
45	Synergistic effects of HSO 5 $\hat{a}^{2}$ in the gamma radiation driven process for the removal of chlorendic acid: A new alternative for water treatment. Chemical Engineering Journal, 2016, 306, 512-521.	12.7	57
46	Narrowing the band gap of TiO2 by co-doping with Mn2+ and Co2+ for efficient photocatalytic degradation of enoxacin and its additional peroxidase like activity: A mechanistic approach. Journal of Molecular Liquids, 2018, 272, 403-412.	4.9	57
47	Sustainable green nanoadsorbents for remediation of pharmaceuticals from water and wastewater: A critical review. Environmental Research, 2022, 204, 112243.	7.5	57
48	Recent technologies for nutrient removal and recovery from wastewaters: A review. Chemosphere, 2021, 277, 130328.	8.2	56
49	Waste Moringa oleifera seed pods as green sorbent for efficient removal of toxic aquatic pollutants. Journal of Environmental Management, 2018, 227, 95-106.	7.8	53
50	Degradation of highly chlorinated pesticide, lindane, in water using UV/persulfate: kinetics and mechanism, toxicity evaluation, and synergism by H2O2. Journal of Hazardous Materials, 2021, 402, 123558.	12.4	53
51	Modified biochar from Moringa seed powder for the removal of diclofenac from aqueous solution. Environmental Science and Pollution Research, 2020, 27, 7318-7327.	5.3	52
52	UV–visible light-activated Ag-decorated, monodisperse TiO2 aggregates for treatment of the pharmaceutical oxytetracycline. Environmental Science and Pollution Research, 2014, 21, 11781-11793.	5.3	51
53	Toxicities, kinetics and degradation pathways investigation of ciprofloxacin degradation using iron-mediated H2O2 based advanced oxidation processes. Chemical Engineering Research and Design, 2018, 117, 473-482.	5.6	51
54	Activated carbon-alginate beads impregnated with surfactant as sustainable adsorbent for efficient removal of methylene blue. International Journal of Biological Macromolecules, 2021, 176, 233-243.	<b>7.</b> 5	51

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55	Biomedical and photocatalytic applications of biosynthesized silver nanoparticles: Ecotoxicology study of brilliant green dye and its mechanistic degradation pathways. Journal of Molecular Liquids, 2020, 319, 114114.	4.9	49
56	Comparative studies of various iron-mediated oxidative systems for the photochemical degradation of endosulfan in aqueous solution. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 306, 80-86.	3.9	48
57	Nano-zerovalent copper as a Fenton-like catalyst for the degradation of ciprofloxacin in aqueous solution. Journal of Water Process Engineering, 2020, 37, 101325.	5.6	48
58	In-situ dual applications of ionic liquid coated Co2+ and Fe3+ co-doped TiO2: Superior photocatalytic degradation of ofloxacin at pilot scale level and enhanced peroxidase like activity for calorimetric biosensing. Journal of Molecular Liquids, 2019, 282, 275-285.	4.9	47
59	Role of eaqâ^', OH and H in radiolytic degradation of atrazine: A kinetic and mechanistic approach. Journal of Hazardous Materials, 2015, 288, 147-157.	12.4	44
60	Removal efficiency and economic cost comparison of hydrated electron-mediated reductive pathways for treatment of bromate. Chemical Engineering Journal, 2017, 320, 523-531.	12.7	43
61	Contamination Assessment of Heavy Metals in Agricultural Soil, in the Liwa Area (UAE). Toxics, 2021, 9, 53.	3.7	42
62	Kinetic and mechanism investigation on the gamma irradiation induced degradation of endosulfan sulfate. Chemosphere, 2015, 121, 18-25.	8.2	40
63	Chitosan/Al2O3-HA nanocomposite beads for efficient removal of estradiol and chrysoidin from aqueous solution. International Journal of Biological Macromolecules, 2020, 145, 686-693.	7.5	40
64	Activated Carbon as Superadsorbent and Sustainable Material for Diverse Applications. Adsorption Science and Technology, 2022, 2022, .	3.2	40
65	Synergistic effects of bismuth coupling on the reactivity and reusability of zerovalent iron nanoparticles for the removal of cadmium from aqueous solution. Science of the Total Environment, 2019, 669, 333-341.	8.0	39
66	Ultraviolet–Visible Light–Sensitive High Surface Area Phosphorous-Fluorine–Co-Doped TiO <sub>2</sub> Nanoparticles for the Degradation of Atrazine in Water. Environmental Engineering Science, 2014, 31, 435-446.	1.6	38
67	Potential of siltstone and its composites with biochar and magnetite nanoparticles for the removal of cadmium from contaminated aqueous solutions: Batch and column scale studies. Environmental Pollution, 2020, 259, 113938.	7.5	37
68	Experimental and theoretical studies of Rhodamine B direct dye sorption onto clay-cellulose composite. Journal of Molecular Liquids, 2021, 328, 115165.	4.9	32
69	CuNPs-loaded amines-functionalized-SBA-15 as effective catalysts for catalytic reduction of cationic and anionic dyes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 623, 126729.	4.7	32
70	Assessment of Metals Concentrations in Soils of Abu Dhabi Emirate Using Pollution Indices and Multivariate Statistics. Toxics, 2021, 9, 95.	3.7	31
71	A comprehensive review on the removal of noxious pollutants using carrageenan based advanced adsorbents. Chemosphere, 2022, 289, 133100.	8.2	29
72	Ionic liquid as a potential solvent for preparation of collagen-alginate-hydroxyapatite beads as bone filler. Journal of Biomaterials Science, Polymer Edition, 2018, 29, 1168-1184.	3.5	26

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73	REMOVAL OF CRYSTAL VIOLET DYE FROM AQUEOUS SOLUTION BY GAMMA IRRADIATION. Journal of the Chilean Chemical Society, 2017, 62, 3359-3364.	1.2	25
74	Degradation of Crystal Violet Dye by Fenton and Photo-Fenton Oxidation Processes. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1771-1786.	2.8	25
75	Nonenzymatic amperometric dopamine sensor based on a carbon ceramic electrode of type SiO2/C modified with Co3O4 nanoparticles. Mikrochimica Acta, 2019, 186, 471.	5.0	25
76	A critical review on phytosynthesis of gold nanoparticles: Issues, challenges and future perspectives. Journal of Cleaner Production, 2021, 309, 127460.	9.3	25
77	Bismuth-Doped Nano Zerovalent Iron: A Novel Catalyst for Chloramphenicol Degradation and Hydrogen Production. ACS Omega, 2020, 5, 30610-30624.	3.5	24
78	Gamma radiolytic decomposition of endosulfan in aerated solution: the role of carbonate radical. Environmental Science and Pollution Research, 2016, 23, 12362-12371.	5.3	19
79	Enhanced solar light photocatalytic performance of Fe-ZnO in the presence of H2O2, S2O82â^', and HSO5â^' for degradation of chlorpyrifos from agricultural wastes: Toxicities investigation. Chemosphere, 2022, 287, 132331.	8.2	19
80	A novel route for catalytic activation of peroxymonosulfate by oxygen vacancies improved bismuth-doped titania for the removal of recalcitrant organic contaminant. Environmental Science and Pollution Research, 2021, 28, 23368-23385.	5.3	19
81	Integrated structural and functional analysis of the protective effects of kinetin against oxidative stress in mammalian cellular systems. Scientific Reports, 2020, 10, 13330.	3.3	18
82	Effect of gold and iron nanoparticles on photocatalytic behaviour of titanium dioxide towards 1-butyl-3-methylimidazolium chloride ionic liquid. Journal of Molecular Liquids, 2019, 291, 111277.	4.9	17
83	HYDROXYL RADICAL BASED DEGRADATION OF CIPROFLOXACIN IN AQUEOUS SOLUTION. Journal of the Chilean Chemical Society, 2016, 61, 2949-2953.	1.2	16
84	Catalytic behavior and antibacterial/antifungal activities of new MNPs/zeolite@alginate composite beads. International Journal of Biological Macromolecules, 2022, 198, 37-45.	7.5	16
85	Fabrication and Evaluation of Cellulose-Alginate-Hydroxyapatite Beads for the Removal of Heavy Metal lons from Aqueous Solutions. Zeitschrift Fur Physikalische Chemie, 2019, 233, 1351-1375.	2.8	15
86	Rapid detection of sulfamethoxazole in plasma and food samples with in-syringe membrane SPE coupled with solid-phase fluorescence spectrometry. Food Chemistry, 2020, 320, 126612.	8.2	15
87	MXsorption of mercury: Exceptional reductive behavior of titanium carbide/carbonitride MXenes. Environmental Research, 2022, 205, 112532.	7.5	15
88	The significance of eighteen rice genotypes on arsenic accumulation, physiological response and potential health risk. Science of the Total Environment, 2022, 832, 155004.	8.0	15
89	Photocatalytic and biomedical investigation of green synthesized NiONPs: Toxicities and degradation pathways of Congo red dye. Surfaces and Interfaces, 2021, 23, 100944.	3.0	14
90	Rapid determination of fumonisin (FB1) by syringe SPE coupled with solid-phase fluorescence spectrometry. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 226, 117549.	3.9	13

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91	Advanced oxidation processes for the treatment of contaminants of emerging concern. , 2020, , 299-365.		13
92	Acid fuchsin dosimeter: a potential dosimeter for food irradiation dosimetry. Journal of Food Measurement and Characterization, 2019, 13, 707-715.	3.2	12
93	Evaluation of the Gulf of Aqaba Coastal Water, Jordan. Water (Switzerland), 2020, 12, 2125.	2.7	12
94	Study of Atmospheric Pollution and Health Risk Assessment: A Case Study for the Sharjah and Ajman Emirates (UAE). Atmosphere, 2021, 12, 1442.	2.3	11
95	Development of zerovalent iron and titania (Fe0/TiO2) composite for oxidative degradation of dichlorophene in aqueous solution: synergistic role of peroxymonosulfate (HSO5a*'). Environmental Science and Pollution Research, 2022, 29, 63041-63056.	5.3	11
96	On-chip solid phase extraction and in situ optical detection. Talanta, 2019, 197, 299-303.	5.5	9
97	Advances in the Synthesis and Application of Anti-Fouling Membranes Using Two-Dimensional Nanomaterials. Membranes, 2021, 11, 605.	3.0	9
98	lonic liquid functionalized nano-zerovalent cerium for catalytic degradation of carbamazepine and colorimetric sensing of H2O2. Journal of Water Process Engineering, 2021, 40, 101964.	5.6	8
99	Preparation of H <sub>3</sub> PO <sub>4</sub> modified Sidr biochar for the enhanced removal of ciprofloxacin from water. International Journal of Phytoremediation, 2022, 24, 1231-1242.	3.1	8
100	Degradation of Acetaminophen in Aqueous Media by H2O2 Assisted Gamma Irradiation Process. Zeitschrift Fur Physikalische Chemie, 2018, 232, 545-558.	2.8	7
101	Simultaneous Enrichment and On-line Detection of Low-Concentration Copper, Cobalt, and Nickel lons in Water by Near-Infrared Diffuse Reflectance Spectroscopy Combined with Chemometrics. Journal of AOAC INTERNATIONAL, 2017, 100, 560-565.	1.5	6
102	Green Production and Structural Evaluation of Maize Starchâ€"Fatty Acid Complexes Through High Speed Homogenization. Journal of Polymers and the Environment, 2020, 28, 3110-3115.	5.0	6
103	Exploring the potential of nano-zerovalent copper modified biochar for the removal of ciprofloxacin from water. Environmental Nanotechnology, Monitoring and Management, 2021, 16, 100604.	2.9	6
104	Preparation of cellulosic Ag-nanocomposites using an ionic liquid. Journal of Biomaterials Science, Polymer Edition, 2019, 30, 785-796.	3.5	5
105	Rapid determination of trace Cu <sup>2+</sup> by an in-syringe membrane SPE and membrane solid-phase spectral technique. Analytical Methods, 2021, 13, 4691-4698.	2.7	4
106	Competition Kinetics: An Experimental Approach., 0, , .		3
107	Quantitative Estimation of Biocapped Surface Chemistry Driven Interparticle Interactions and Growth Kinetics of Gold Nanoparticles. Journal of Cluster Science, 2022, 33, 557-565.	3.3	3
108	Microwave-Induced Modification of Physical and Functional Characteristics and Antioxidant Potential of Alkali-Soluble Cell Wall Polysaccharides of Nelumbo nucifera Rhizome. Journal of Polymers and the Environment, 2021, 29, 3548-3560.	5.0	2

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109	Cavitation-Based Processes for Water and Wastewater Treatment. Handbook of Environmental Chemistry, 2022, , 331-377.	0.4	1
110	Bacterial Shoot Apical Meristem Inoculation Assay. Methods in Molecular Biology, 2020, 2094, 17-22.	0.9	0
111	Molecular Modeling of the Interaction Between Stem Cell Peptide and Immune Receptor in Plants. Methods in Molecular Biology, 2020, 2094, 67-77.	0.9	0
112	Mapping a Transcriptome-Guided Arabidopsis SAM Interactome. Methods in Molecular Biology, 2020, 2094, 113-118.	0.9	0
113	Integrated Framework of the Immune-Defense Transcriptional Signatures in the Arabidopsis Shoot Apical Meristem. International Journal of Molecular Sciences, 2020, 21, 5745.	4.1	O
114	Electro-Catalytic process for the Synthesis of Organic Compounds and their Biological Applications. Current Organic Synthesis, 2020, $17$ , .	1.3	0